



SEQUENCE LISTING

<110> Takeda Chemical Industries, Ltd.

<120> Use of Peptide

<130> 2584WOOP

<150> JP 10-369585

<151> 1998-12-25

<160> 45

<210> 1

<211> 98

<212> PRT

<213> Bovine

<400> 1

Met Lys Ala Val Gly Ala Trp Leu Leu Cys Leu Leu Leu Gly Leu

1 5 10 15

Ala Leu Gln Gly Ala Ala Ser Arg Ala His Gln His Ser Met Glu Ile

20 25 30

Arg Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg

35 40 45

Pro Val Gly Arg Phe Gly Arg Arg Arg Ala Ala Pro Gly Asp Gly Pro

50 55 60

Arg Pro Gly Pro Arg Arg Val Pro Ala Cys Phe Arg Leu Glu Gly Gly

65 70 75 80

Ala Glu Pro Ser Arg Ala Leu Pro Gly Arg Leu Thr Ala Gln Leu Val

85 90 95

Gln Glu

<210> 2

<211> 294

<212> DNA

<213> Bovine

<400> 2

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TGGGCCTGGC CCTGCAGGGG 60

GCTGCCAGCA GAGCCCACCA GCACTCCATG GAGATCCGCA

CCCCCGACAT CAACCCTGCC 120

TGGTACGCRG GCCGTGGGAT CCGGCCCGTG GGCCGCTTCG

GCCGGCGAAG AGCTGCCCCY 180

GGGGACGGAC CCAGGCCTGG CCCCCGGCGT GTGCCGGCCT

GCTTCCGCCT GGAAGGCGGY 240

GCTGAGCCCT CCCGAGCCCT CCCGGGGCGG CTGACGGCCC

AGCTGGTCCA GGAA 294

<210> 3

<211> 31

<212> PRT

<213> Bovine

<400> 3

Ser Arg Ala His Gln His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn

1

5

10

15

Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro Val Gly Arg Phe

20

25

30

<210> 4

<211> 32

<212> PRT

<213> Bovine

<400> 4

Ser Arg Ala His Gln His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn

1 5 10 15

Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro Val Gly Arg Phe Gly

20 25 30

<210> 5

<211> 33

<212> PRT

<213> Bovine

<400> 5

Ser Arg Ala His Gln His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn

1 5 10 15

Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro Val Gly Arg Phe Gly

20 25 30

Arg

33

<210> 6

<211> 20

<212> PRT

<213> Bovine

<400> 6

Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro

1 5 10 15

Val Gly Arg Phe

20

<210> 7

<211> 21

<212> PRT

<213> Bovine

<400> 7

Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro

1 5 10 15

Val Gly Arg Phe Gly

20

<210> 8

<211> 22

<212> PRT

<213> Bovine

<400> 8

Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg Pro

1 5 10 15

Val Gly Arg Phe Gly Arg

20

<210> 9

<211> 93

<212> DNA

<213> Bovine

<400> 9

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ACATCAACCC TGCCTGGTAC 60

GCRGGCCGTG GGATCCGGCC CGTGGGCCGC TTC

93

<210> 10

<211> 96

<212> DNA

<213> Bovine

<400> 10

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ACATCAACCC TGCCTGGTAC 60

GCRGGCCGTG GGATCCGGCC CGTGGGCCGC TTCGGC

96

<210> 11

<211> 99

<212> DNA

<213> Bovine

<400> 11

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ACATCAACCC TGCCTGGTAC 60

GCRGGCCGTG GGATCCGGCC CGTGGGCCGC TTCGGCCGG

99

<210> 12

<211> 60

<212> DNA

<213> Bovine

<400> 12

ACCCCGACA TCAACCCTGC CTGGTACGCR GGCCGTGGGA

TCCGGCCCGT GGGCCGCTTC 60

<210> 13

<211> 63

<212> DNA

<213> Bovine

<400> 13

ACCCCGACA TCAACCCTGC CTGGTACGCR GGCCGTGGGA

TCCGGCCCGT GGGCCGCTTC 60

GGC

63

<210> 14

<211> 66

<212> DNA

<213> Bovine

<400> 14

ACCCCGACA TCAACCCTGC CTGGTACGCR GGCCGTGGGA

TCCGGCCCGT GGGCCGCTTC 60

GGCCGG

66

<210> 15

<211> 98

<212> PRT

<213> Bovine

<400> 15

Met Lys Ala Val Gly Ala Trp Leu Leu Cys Leu Leu Leu Gly Leu

1 5 10 15

Ala Leu Gln Gly Ala Ala Ser Arg Ala His Gln His Ser Met Glu Ile

20 25 30

Arg Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Gly Arg Gly Ile Arg

35 40 45

Pro Val Gly Arg Phe Gly Arg Arg Arg Ala Ala Leu Gly Asp Gly Pro

50 55 60

Arg Pro Gly Pro Arg Arg Val Pro Ala Cys Phe Arg Leu Glu Gly Gly

65 70 75 80

Ala Glu Pro Ser Arg Ala Leu Pro Gly Arg Leu Thr Ala Gln Leu Val

85 90 95

Gln Glu

<210> 16

<211> 83

<212> PRT

<213> Rat

<400> 16

Met Ala Leu Lys Thr Trp Leu Leu Cys Leu Leu Leu Ser Leu Val

1 5 10 15

Leu Pro Gly Ala Ser Ser Arg Ala His Gln His Ser Met Glu Thr Arg

20 25 30

Thr Pro Asp Ile Asn Pro Ala Trp Tyr Thr Gly Arg Gly Ile Arg Pro

35

40

45

Val Gly Arg Phe Gly Arg Arg Arg Ala Thr Pro Arg Asp Val Thr Gly

50

55

60

Leu Gly Gln Leu Ser Cys Leu Pro Leu Asp Gly Arg Thr Lys Phe Ser

65

70

75

80

Gln Arg Gly

<210> 17

<211> 249

<212> DNA

<213> Rat

<400> 17

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CCCAGGGGCT 60

TCCAGCCGAG CCCACCAGCA CTCCATGGAG ACAAGAACCC

CTGATATCAA TCCTGCCTGG 120

TACACGGGCC GCGGGATCAG GCCTGTGGGC CGCTTCGGCA

GGAGAAGGGC AACCCCGAGG 180

GATGTCACTG GACTTGGCCA ACTCAGCTGC CTCCCACTGG

ATGGACGCAC CAAGTTCTCT 240

CAGCGTGGA

249

<210> 18

<211> 31

<212> PRT

<213> Rat

<400> 18

Ser Arg Ala His Gln His Ser Met Glu Thr Arg Thr Pro Asp Ile Asn

1 5 10 15

Pro Ala Trp Tyr Thr Gly Arg Gly Ile Arg Pro Val Gly Arg Phe

20 25 30

<210> 19

<211> 32

<212> PRT

<213> Rat

<400> 19

Ser Arg Ala His Gln His Ser Met Glu Thr Arg Thr Pro Asp Ile Asn

1 5 10 15

Pro Ala Trp Tyr Thr Gly Arg Gly Ile Arg Pro Val Gly Arg Phe Gly

20 25 30

<210> 20

<211> 33

<212> PRT

<213> Rat

<400> 20

Ser Arg Ala His Gln His Ser Met Glu Thr Arg Thr Pro Asp Ile Asn

1 5 10 15

Pro Ala Trp Tyr Thr Gly Arg Gly Ile Arg Pro Val Gly Arg Phe Gly

20 25 30

Arg

<210> 21

<211> 20

<212> PRT

<213> Rat

<400> 21

Thr Pro Asp Ile Asn Pro Ala Trp Tyr Thr Gly Arg Gly Ile Arg Pro

1

5

10

15

Val Gly Arg Phe

20

<210> 22

<211> 21

<212> PRT

<213> Rat

<400> 22

Thr Pro Asp Ile Asn Pro Ala Trp Tyr Thr Gly Arg Gly Ile Arg Pro

1

5

10

15

Val Gly Arg Phe Gly

20

<210> 23

<211> 22

<212> PRT

<213> Rat

<400> 23

Thr Pro Asp Ile Asn Pro Ala Trp Tyr Thr Gly Arg Gly Ile Arg Pro

1

5

10

15

Val Gly Arg Phe Gly Arg

20

<210> 24

<211> 93

<212> DNA

<213> Rat

<400> 24

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ATATCAATCC TGCCTGGTAC 60

ACGGGCCGCG GGATCAGGCC TGTGGGCCGC TTC

93

<210> 25

<211> 96

<212> DNA

<213> Rat

<400> 25

AGCCGAGCCC ACCAGCACTC CATGGAGACA AGAACCCCTG

ATATCAATCC TGCCTGGTAC 60

ACGGGCCGCG GGATCAGGCC TGTGGGCCGC TTCGGC

96

<210> 26

<211> 99

<212> DNA

<213> Rat

<400> 26

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ATATCAATCC TGCCTGGTAC 60
ACGGGCCGCG GGATCAGGCC TGTGGGCCGC TTCGGCAGG
99

<210> 27

<211> 60

<212> DNA

<213> Rat

<400> 27

ACCCCTGATA TCAATCCTGC CTGGTACACG GGCCGCGGGA
TCAGGCCTGT GGGCCGCTTC 60

<210> 28

<211> 63

<212> DNA

<213> Rat

<400> 28

ACCCCTGATA TCAATCCTGC CTGGTACACG GGCCGCGGGA
TCAGGCCTGT GGGCCGCTTC 60

GGC

63

<210> 29

<211> 66

<212> DNA

<213> Rat

<400> 29

ACCCCTGATA TCAATCCTGC CTGGTACACG GGCCGCGGGA

TCAGGCCTGT GGGCCGCTTC 60

GGCAGG

66

<210> 30

<211> 87

<212> PRT

<213> Human

<400> 30

Met Lys Val Leu Arg Ala Trp Leu Leu Cys Leu Leu Met Leu Gly Leu

1 5 10 15

Ala Leu Arg Gly Ala Ala Ser Arg Thr His Arg His Ser Met Glu Ile

20 25 30

Arg Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Ser Arg Gly Ile Arg

35 40 45

Pro Val Gly Arg Phe Gly Arg Arg Arg Ala Thr Leu Gly Asp Val Pro

50 55 60

Lys Pro Gly Leu Arg Pro Arg Leu Thr Cys Phe Pro Leu Glu Gly Gly

65 70 75 80

Ala Met Ser Ser Gln Asp Gly

85

<210> 31

<211> 261

<212> DNA

<213> Human

<400> 31

ATGAAGGTGC TGAGGGCCTG GCTCCTGTGC CTGCTGATGC

TGGGCCTGGC CCTGCGGGGA .60
 GCTGCAAGTC GTACCCATCG GCACTCCATG GAGATCCGCA
 CCCCTGACAT CAATCCTGCC 120
 TGGTACGCCA GTCGCGGGAT CAGGCCTGTG GGCCGCTTCG
 GTCGGAGGAG GGCAACCCTG 180
 GGGGACGTCC CCAAGCCTGG CCTGCGACCC CGGCTGACCT
 GCTTCCCCCT GGAAGGCGGT 240
 GCTATGTCGT CCCAGGATGG C

261

<210> 32

<211> 31

<212> PRT

<213> Human

<400> 32

Ser Arg Thr His Arg His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn

1 5 10 15

Pro Ala Trp Tyr Ala Ser Arg Gly Ile Arg Pro Val Gly Arg Phe

20 25 30

<210> 33

<211> 32

<212> PRT

<213> Human

<400> 33

Ser Arg Thr His Arg His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn

1 5 10 15

Pro Ala Trp Tyr Ala Ser Arg Gly Ile Arg Pro Val Gly Arg Phe Gly

20

25

30

<210> 34

<211> 33

<212> PRT

<213> Human

<400> 34

Ser Arg Thr His Arg His Ser Met Glu Ile Arg Thr Pro Asp Ile Asn

1

5

10

15

Pro Ala Trp Tyr Ala Ser Arg Gly Ile Arg Pro Val Gly Arg Phe Gly

20

25

30

Arg

<210> 35

<211> 20

<212> PRT

<213> Human

<400> 35

Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Ser Arg Gly Ile Arg Pro

1

5

10

15

Val Gly Arg Phe

20

<210> 36

<211> 21

<212> PRT

<213> Human

<400> 36

Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Ser Arg Gly Ile Arg Pro

1

5

10

15

Val Gly Arg Phe Gly

20

<210> 37

<211> 22

<212> PRT

<213> Human

<400> 37

Thr Pro Asp Ile Asn Pro Ala Trp Tyr Ala Ser Arg Gly Ile Arg Pro

1

5

10

15

Val Gly Arg Phe Gly Arg

20

<210> 38

<211> 93

<212> DNA

<213> Human

<400> 38

AGTCGTACCC ATCGGCACTC CATGGAGATC CGCACCCCTG ACATCAATCC

TGCCTGGTAC 60

GCCAGTCGCG GGATCAGGCC TGTGGGCCGC TTC

93

<210> 39

<211> 96

<212> DNA

<213> Human

<400> 39

AGTCGTACCC ATCGGCACTC CATGGAGATC CGCACCCCTG ACATCAATCC

TGCCTGGTAC 60

GCCAGTCGCG GGATCAGGCC TGTGGGCCGC TTCGGT

96

<210> 40

<211> 99

<212> DNA

<213> Human

<400> 40

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TGCCTGGTAC 60

GCCAGTCGCG GGATCAGGCC TGTGGGCCGC TTCGGTCGG

99

<210> 41

<211> 60

<212> DNA

<213> Human

<400> 41

ACCCCTGACA TCAATCCTGC CTGGTACGCC AGTCGCGGGA

TCAGGCCTGT GGGCCGCTTC 60

<210> 42

<211> 63

<212> DNA

<213> Human

<400> 42

ACCCCTGACA TCAATCCTGC CTGGTACGCC AGTCGCGGGA

TCAGGCCTGT GGGCCGCTTC 60

GGT

63

<210> 43

<211> 66

<212> DNA

<213> Human

<400> 43

ACCCCTGACA TCAATCCTGC CTGGTACGCC AGTCGCGGGA

TCAGGCCTGT GGGCCGCTTC 60

GGTCGG

66

<210> 44

<211> 31

<212> PRT

<213> Unknown

<220>

<221>

<223> Xaa on the 3rd position means Thr or Ala, Xaa on the 5th position means Arg or Gln, Xaa on the 10th position means Ile or Thr, Xaa on the 21st position means Thr or Ala, Xaa on the 22nd position means Gly or Ser.

<400> 44

Ser Arg Xaa His Xaa His Ser Met Glu Xaa Arg Thr Pro Asp Ile Asn

80

1 5 10 15
Pro Ala Trp Tyr Xaa Xaa Arg Gly Ile Arg Pro Val Gly Arg Phe
 20 25 30

<210> 45

<211> 20

<212> PRT

<213> Unknown

<220>

<221>

<223> Xaa on the 10th position means Thr or Ala, Xaa on the 11th position
means Gly or Ser.

<400> 45

Thr Pro Asp Ile Asn Pro Ala Trp Tyr Xaa Xaa Arg Gly Ile Arg Pro

1 5 10 15
Val Gly Arg Phe
 20